



**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: Robert W. McMillan et al.

Group Art Unit: (Not Assigned)

Title: Coherent Radar and Ladar Polarimeter

Application

Serial No.: 10/631,218

Examiner: (Not Assigned)

Filed On: 25 July 2003

Atty. Docket No.: 01-07

**INFORMATION DISCLOSURE STATEMENT**

Commissioner For Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

In accordance with 37 C.F.R. § 1.97b, the documents listed on the attached form PTO-1449 are being brought to the attention of the Examiner for consideration in connection with the examination of the above-identified patent application. Copies of the cited publications are enclosed herewith.

This statement is being submitted within three months of filing of the above-captioned application so the items submitted herewith should therefore be considered without necessity of a certification, petition or fee.

I hereby certify that this correspondence is being deposited on the date given below with the United States Postal Service as first class mail in an envelope addressed to "Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450."

Date: October 15, 2003

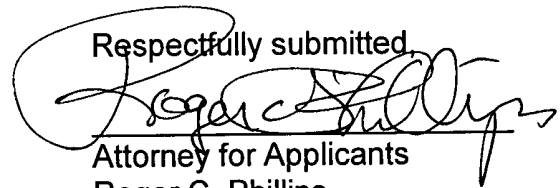
Roger C. Phillips, Reg. No. 37,418

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The filing of this information disclosure statement shall not be construed that the information cited is entitled to prior art status relevant to this application or as an admission against interest in any manner.

Each document dated less than one year prior to the effective filing date of this application is expressly not admitted to be prior art with respect to this application, but rather is being brought to the attention of the Examiner as indicative of the state of the art.

It is respectfully requested the Examiner indicate, consideration of the cited references by returning a copy of the attached form PTO-1449 with initials or other appropriate marks.

Respectfully submitted  
  
Attorney for Applicants  
Roger C. Phillips  
Reg. No. 37,418

USASMDC  
ATTN: SMDC-LC-H  
P.O. Box 1500  
Huntsville, AL 35807-3801  
Phone: (256) 955-3213  
Date: October 15, 2003

Substitute for form 1449/PTO

PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

*(Use as many sheets as necessary)*

Sheet 1

of 2

**Complete if Known**

|                    |            |
|--------------------|------------|
| Application Number | 10/631,218 |
|--------------------|------------|

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|-------------|--------------|
| Filing Date | 25 July 2003 |
|-------------|--------------|

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|----------------------|--------------------|
| First Named Inventor | Robert W. McMillan |
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Art Unit

|               |
|---------------|
| Examiner Name |
|---------------|

|                        |       |
|------------------------|-------|
| Attorney Docket Number | 01-07 |
|------------------------|-------|

## U. S. PATENT DOCUMENTS

[illegible]

**FOREIGN PATENT DOCUMENTS**

[illegible]

**Examiner  
Signature**

Date  
Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.<sup>1</sup> Applicant's unique citation designation number (optional).<sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04.<sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).<sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.<sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible.<sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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PTO/SB/088 (02-03)

Approved for use through 04/30/2003. OMB 0851-0031

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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**Complete if Known**

|                        |                     |
|------------------------|---------------------|
| Application Number     | 10/631,218          |
| Filing Date            | 25 July 2003        |
| First Named Inventor   | McMillan, Robert W. |
| Art Unit               |                     |
| Examiner Name          |                     |
| Attorney Docket Number | 01-07               |

Sheet 2

of 2

**OTHER PRIOR ART—NON PATENT LITERATURE DOCUMENTS**

| Examiner Initials* | Cite No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T <sup>2</sup> |
|--------------------|-----------------------|---|----------------|
|                    | ✓                     | Iannarilli et al., "Polarimetric-Spectral Intensity Modulation (P-SIM)...Imaging", SPIE Conference, Orlando, FL, Apr. 1999,   |                |
|                    | ✓                     | Oka, K. and Kato, T. "Spectroscopic Polarimetry...Spectrum", Optics Letters, Nov. 1, 1999, Vol. 24  |                |
|                    | ✓                     | Sabatke et al, "Optimization of Retardance...Polarimeter", Optics Letters, Vol. 25, No. 11, June 1, 2000  | ✓              |
|                    | ✓                     | Goldsmith, P., "Quasioptical Systems", IEEE Press, PP. 71-77  | 0              |
|                    | ✓                     | Born, M. and Wolf, E., "Principles of Optics", Pergamon Press PP. 30-32 and 554-555.  | 6              |
|                    | ✓                     | McMillan et al., "An Experimental 225 GHz Pulsed Coherent Radar", Transactions on Microwave Theory and Techniques, Mar. 1991  | ✓              |
|                    | ✓                     | Gribbin, J. "Schrodinger's Kittens...Reality", PP. 109-115  | 0              |
|                    | ✓                     | Sabatke et al. "A Snapshot Imaging Spectropolarimeter", Proceed. of the Multi/Hyperspectral Sensors...Workshop, Redstone, 7-9 Nov. 2000   | ✓              |
|                    |                       | U.S. Patent Application No. 10/341,151 to McMillan et al, Filed January 13, 2003, Entitled "A Device and Method...Radar Signal"   |                |
|                    |                       |   |                |

Examiner  
SignatureDate  
Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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